

ABSTRACT OF THE DISCLOSURE

This invention is to decrease the sensor pitch, prevent saturation by external light, accurately determine skimming, simplify skimming determination, 5 and prevent any difference in influence of the transfer efficiency between the ON and OFF states. For this purpose, a distance measuring apparatus includes a light projection section for projecting light to an object, a sensor array for receiving reflected light 10 from the object, a first transfer section for transferring charges from the sensor array, and a ring-shaped second charge transfer section for integrating the charges from the first transfer section, wherein the first charge transfer section transfers charges in a light projection ON state and charges in a light projection OFF state at a timing, 15 the transfer frequency of the second charge transfer section is twice that of the first charge transfer section, and the timing of the first charge transfer section has a phase different from that of the second 20 charge transfer section.